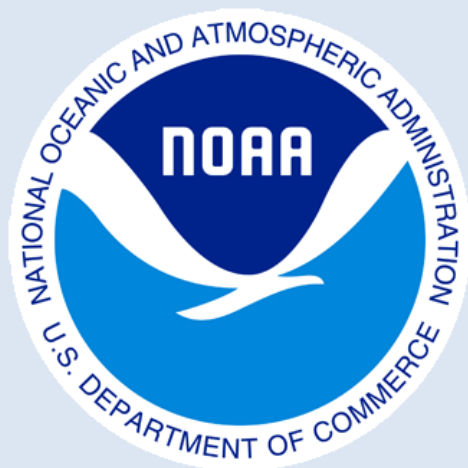
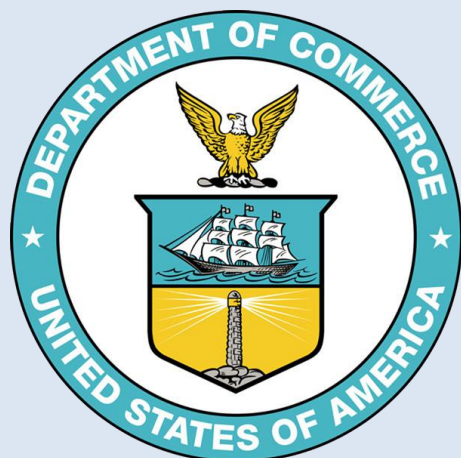


NOAA Climate Science & Services

Monthly Climate Update

A look back at November and a
preview for the next 3 months



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3-Month Forecaster, Operations Branch
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Camp Springs, MD

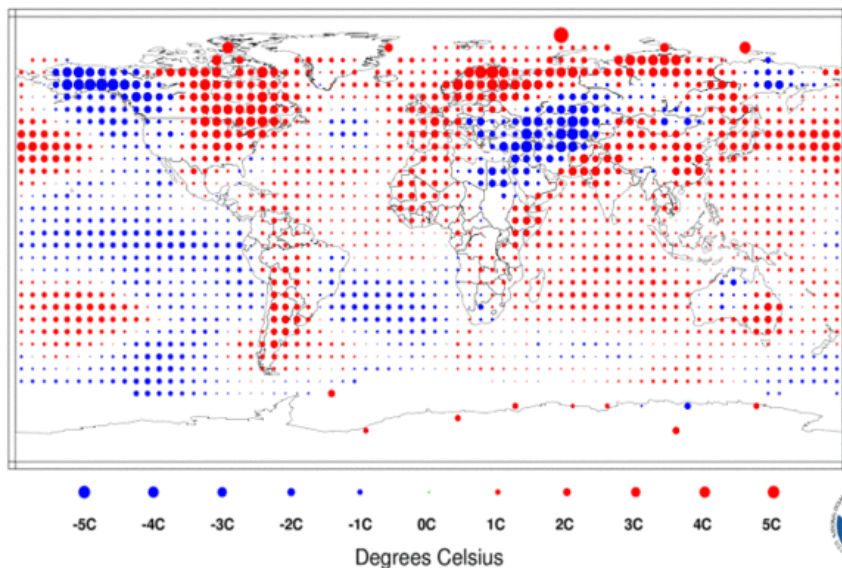
December 15, 2011

Global Climate Highlights

Temperature Anomalies November 2011

(with respect to a 1971-2000 base period)

National Climatic Data Center/NESDIS/NOAA



November Temperatures:

- 12th warmest Globally
- Land 16th warmest, Ocean 12th warmest
- La Niña continues

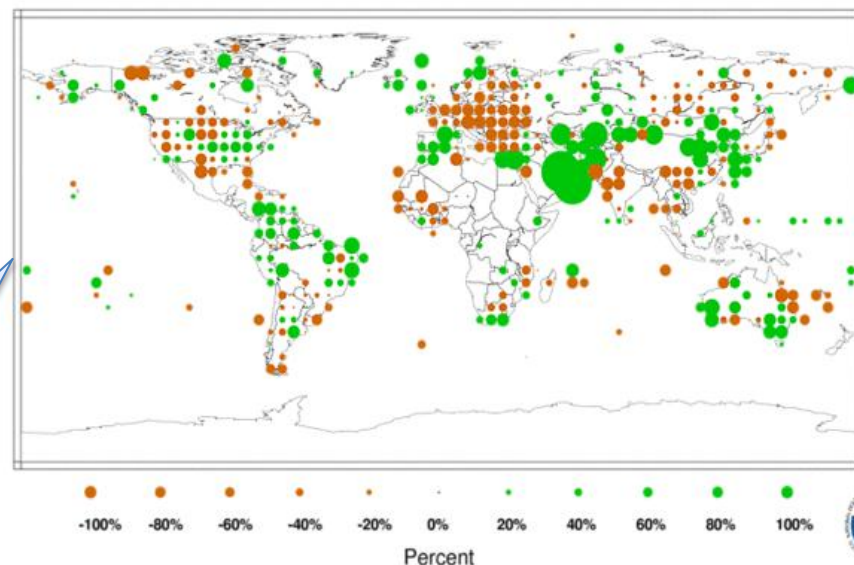
January-November Temperatures:

- 11th warmest Globally
- Land 7th warmest, Ocean 11th warmest

Precipitation Anomalies November 2011

(percent departures with respect to a 1961-1990 base period)

National Climatic Data Center/NESDIS/NOAA



Dry Conditions:

- Europe – Ongoing Drought
- Queensland Australia – Wildfires

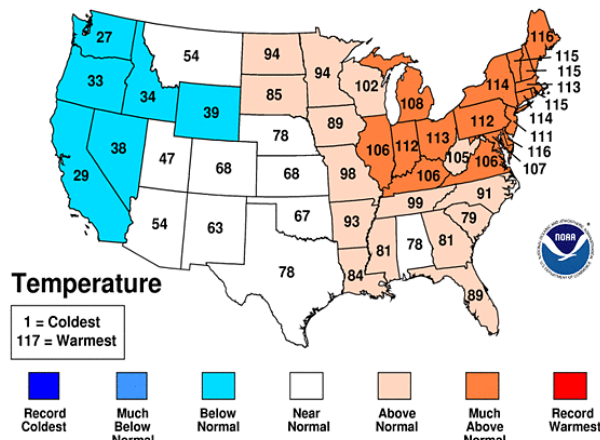
Wet Conditions:

- Arabian Peninsula – Tropical Cyclone
- New South Wales and Western Australia
- Eastern Asia and Northern S. America

U.S. November/ Fall Season Highlights

November 2011 Statewide Ranks

National Climatic Data Center/NESDIS/NOAA



Temperatures

November:

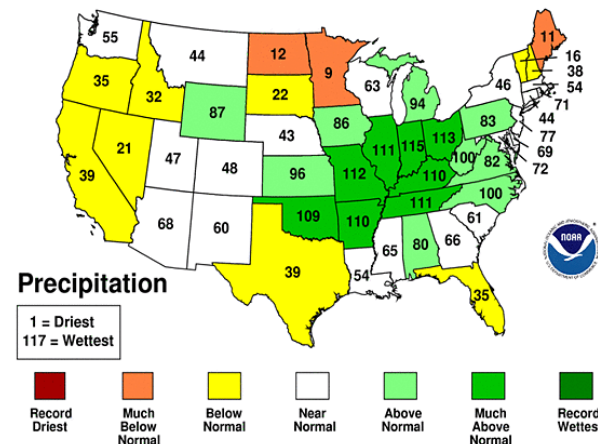
- Warm in the Northeast, Southeast, and Midwest. Several states top 10 warmest.
- Cool across the western states

Fall:

- Very warm across the Northeast. MA, RI, and VT record warm
- Warm across the West and Northern Plains
- Cool in the Deep South.

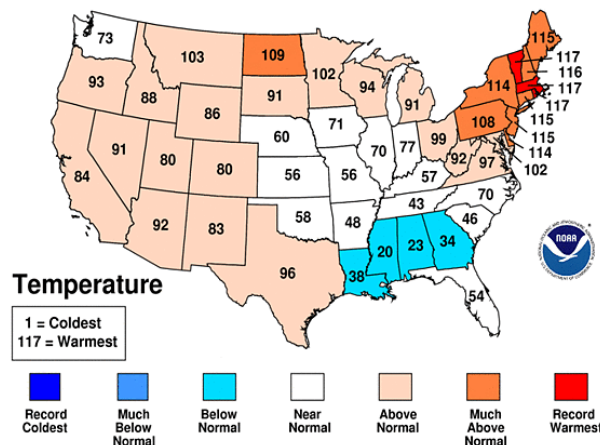
November 2011 Statewide Ranks

National Climatic Data Center/NESDIS/NOAA



September-November 2011 Statewide Ranks

National Climatic Data Center/NESDIS/NOAA



Precipitation

November:

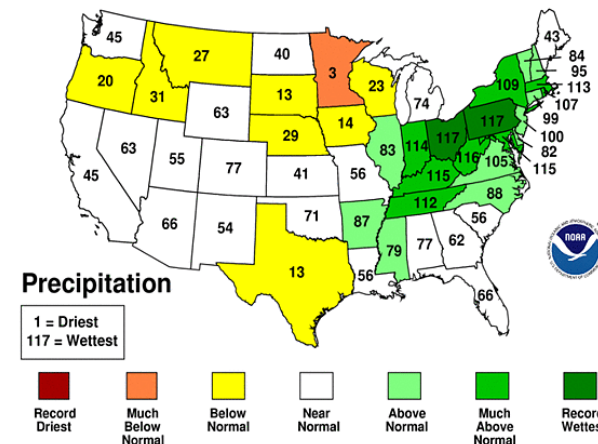
- Wet across the Ohio Valley and into parts of the S. Plains.
- Drought improvement across OK, AR, and KS.
- Dry across the North

Fall:

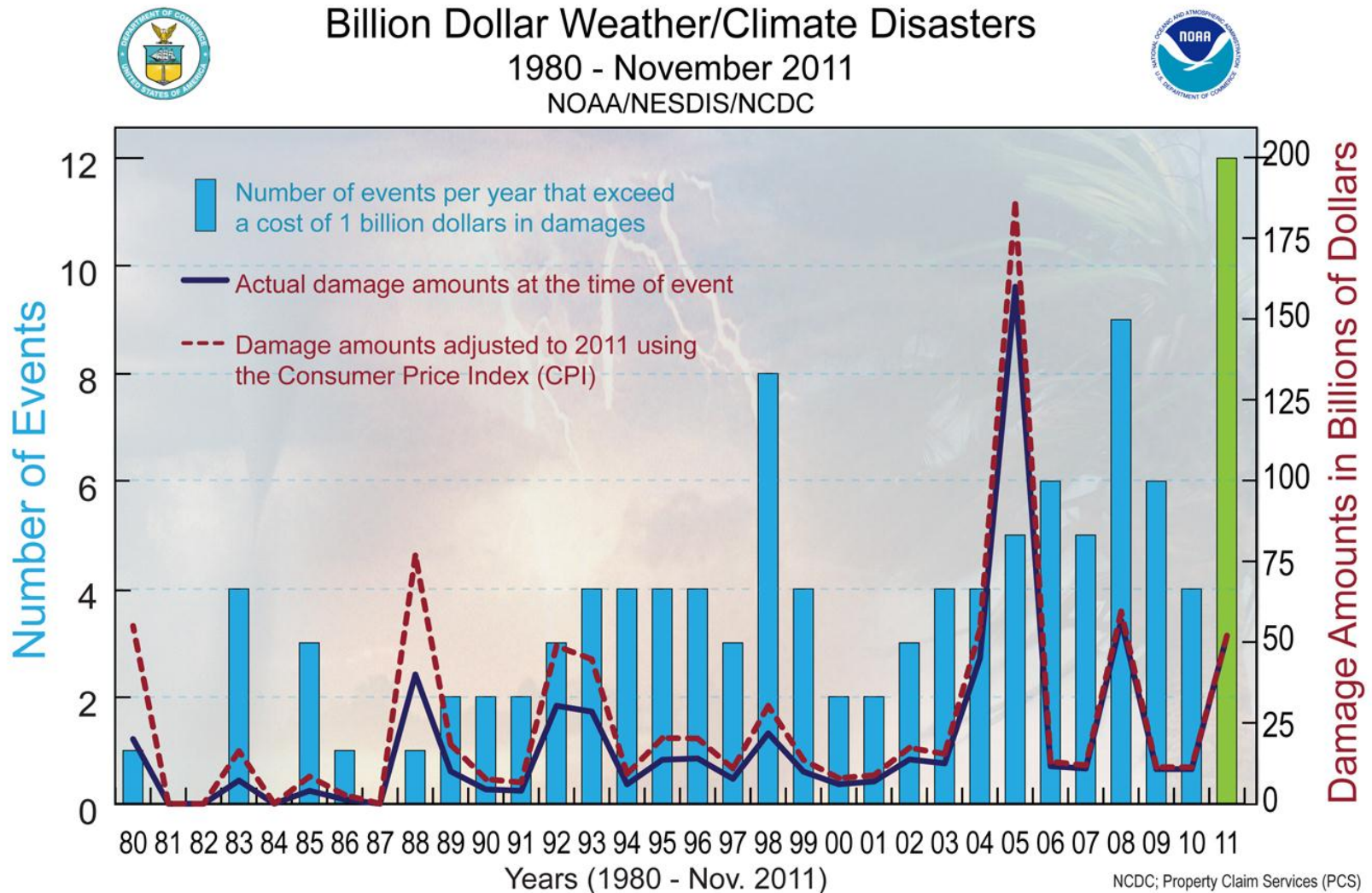
- Very wet in Ohio Valley and into Northeast. Record wet in OH, PA
- Dry from the central part of the country into the Northwest.

September-November 2011 Statewide Ranks

National Climatic Data Center/NESDIS/NOAA



U.S. Significant Events



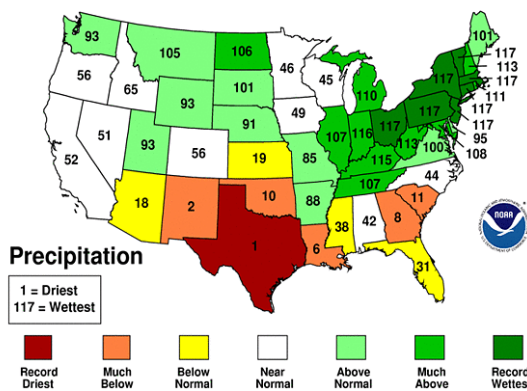
U.S. “Annual” Highlights

Significant Events/Conditions

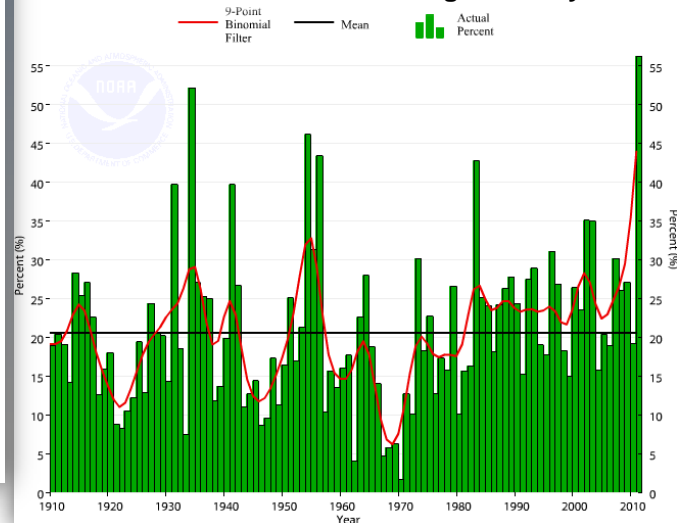
- Record breaking drought across the Southern Plains
- Record breaking precipitation across the Northeast/Midwest
- Floods along the Ohio, Mississippi, Red, Souris, James, and Missouri Rivers
- Persistent heat across the Southern Plains and into the East. OK and TX warmest summers on record
- Incredible tornado outbreaks in populated areas.
- Record breaking snow storms in the Midwest and Northeast
- Unprecedented wildfires
- Hurricane Irene and Tropical Storm Lee impacts. Third busiest N. Atlantic Season

January-November 2011 Statewide Ranks

National Climatic Data Center/NESDIS/NOAA

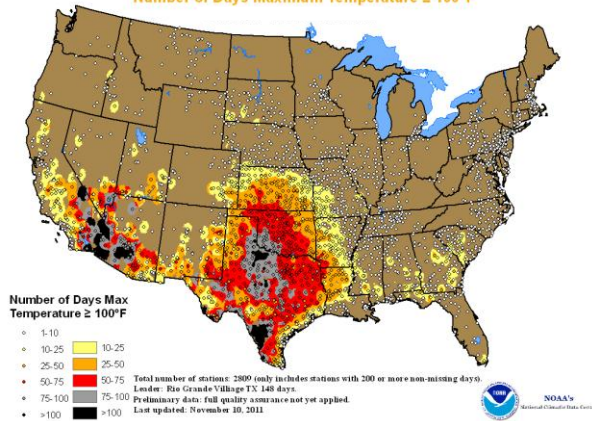


Percent of US in Extreme Drought or Very Wet



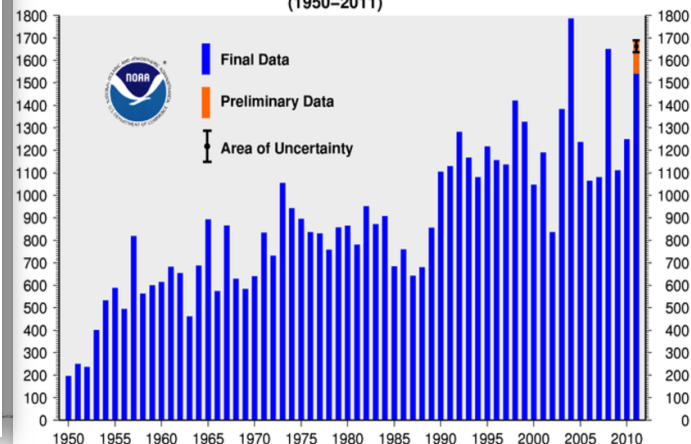
Persistent Heat Engulfs Much of the Nation - 2011

Number of Days Maximum Temperature $\geq 100^\circ\text{F}$



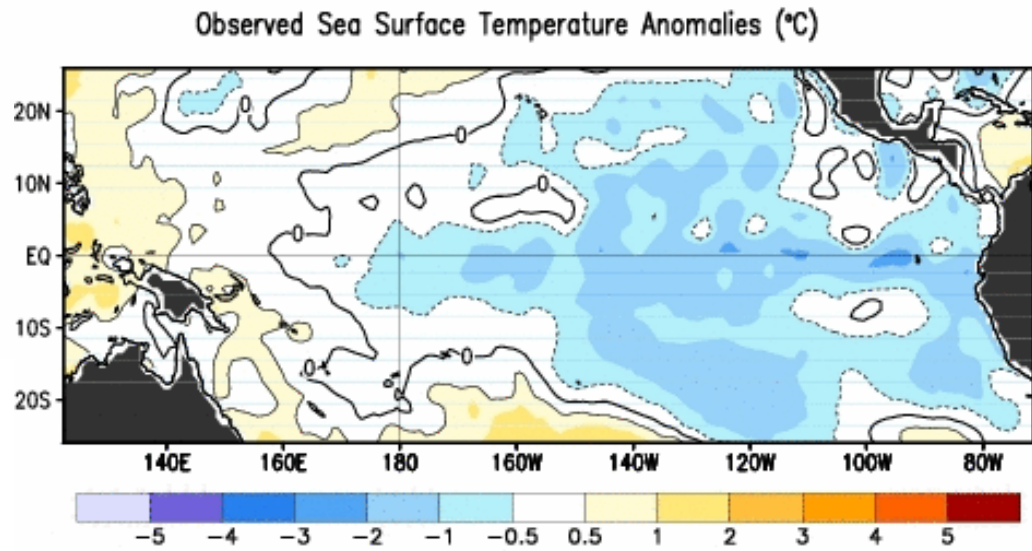
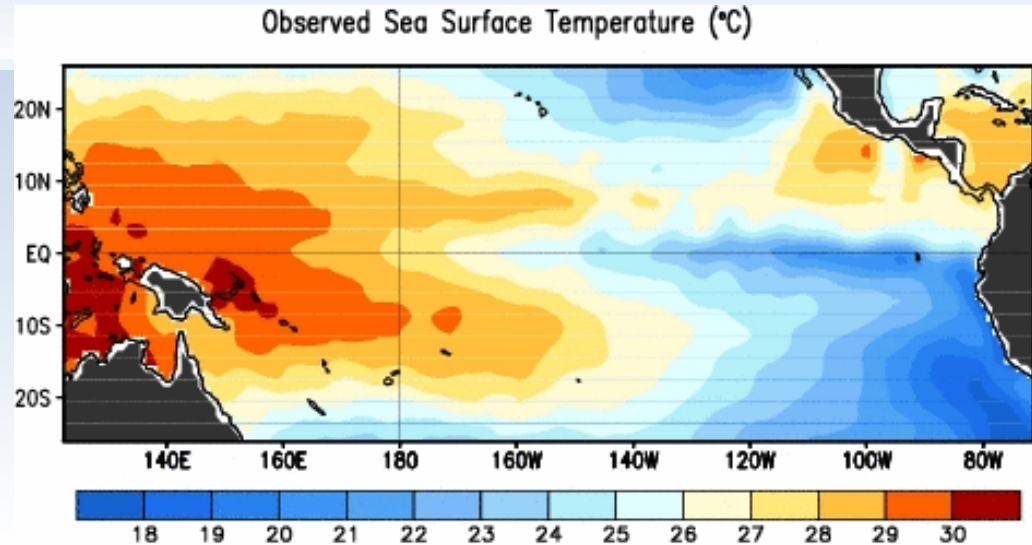
Jan–Nov Total Number of Tornadoes

(1950–2011)



Current El Nino/Southern Oscillation (ENSO) Status

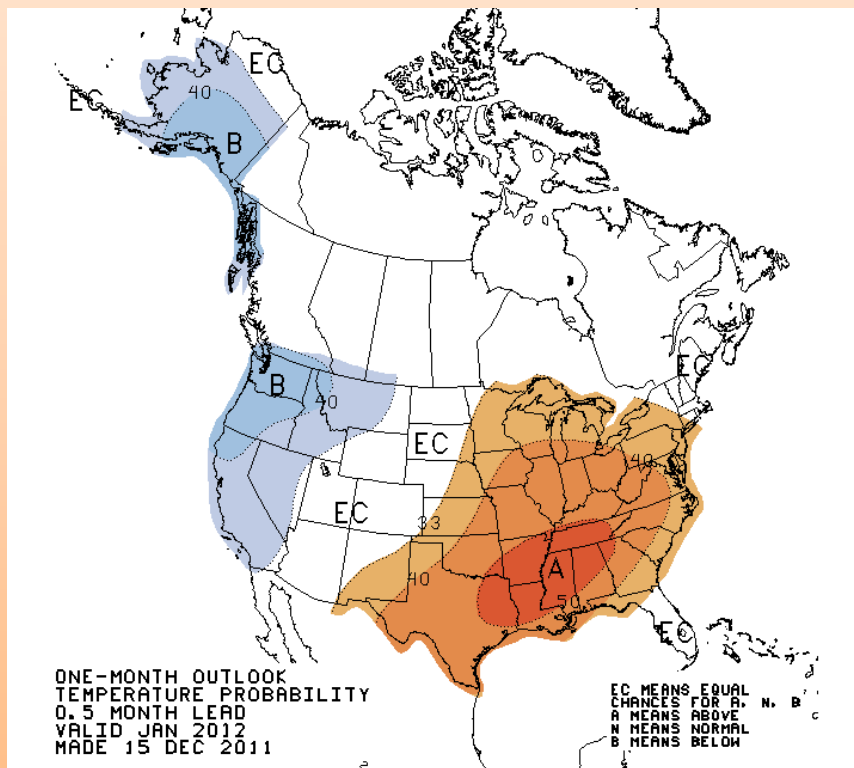
**La Niña
continues**



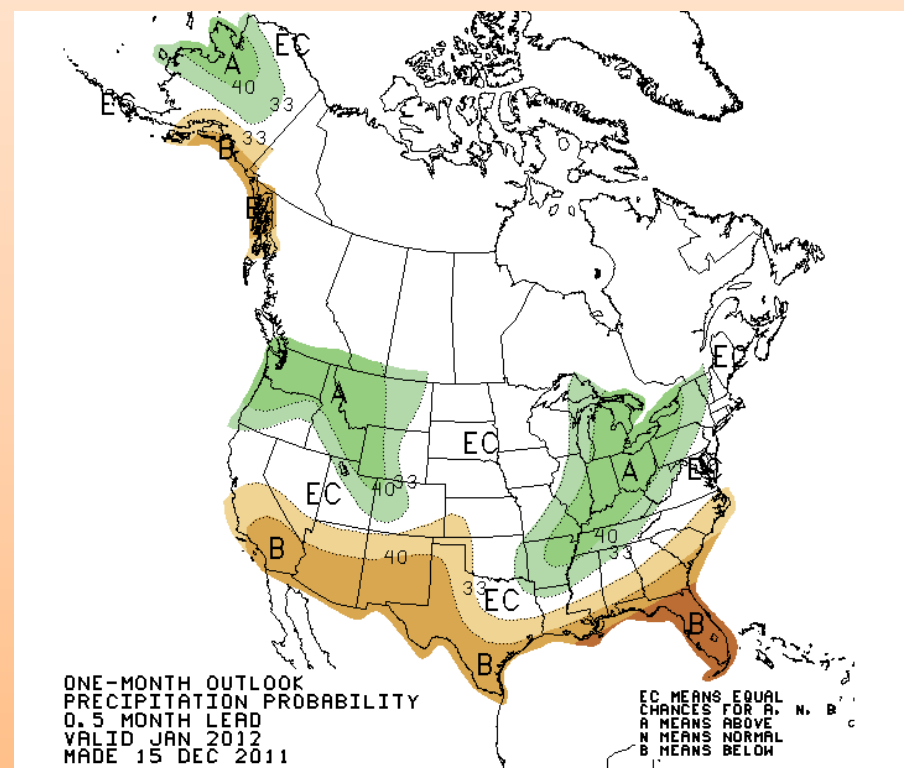
7-day Average Centered on 30 November 2011

1-Month Temperature and Precipitation Outlooks

JANUARY AVERAGE TEMPERATURE CATEGORY PROBABILITY

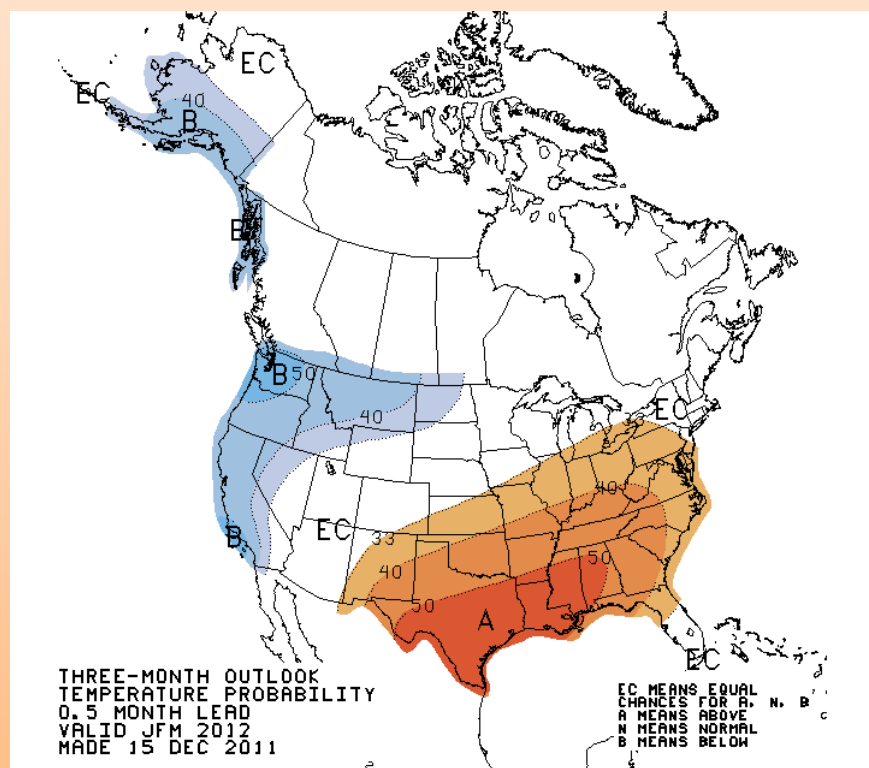


JANUARY TOTAL PRECIPITATION CATEGORY PROBABILITY

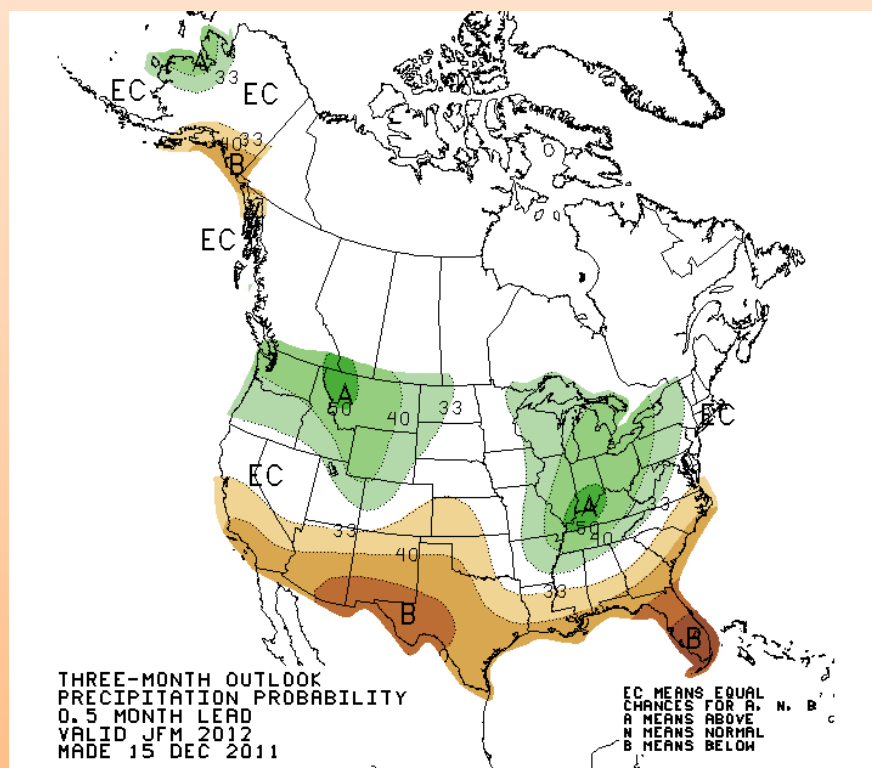


3-Month Temperature and Precipitation Outlooks

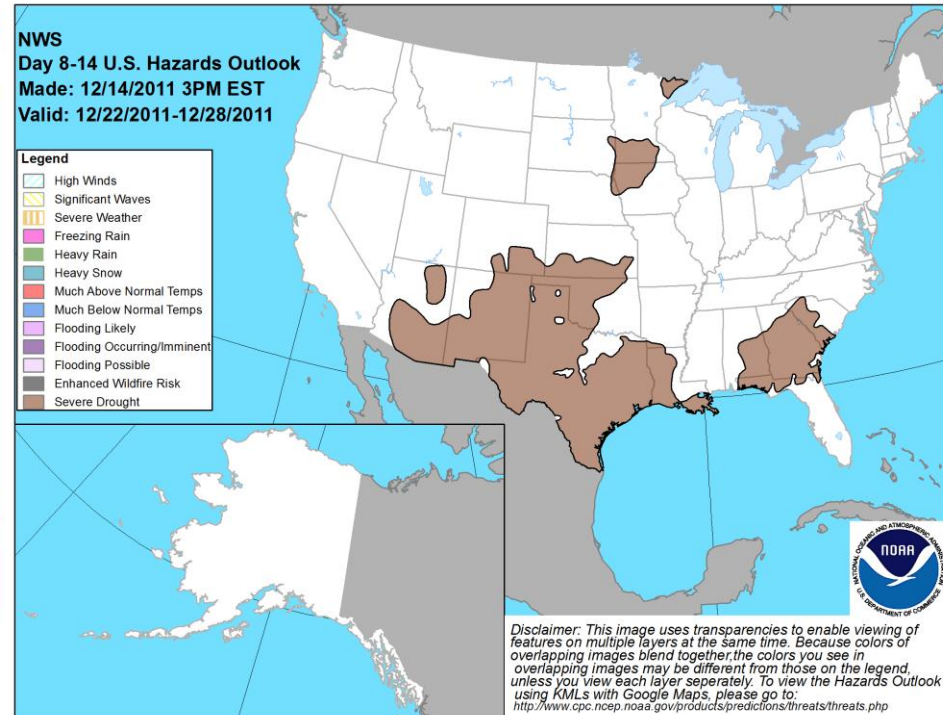
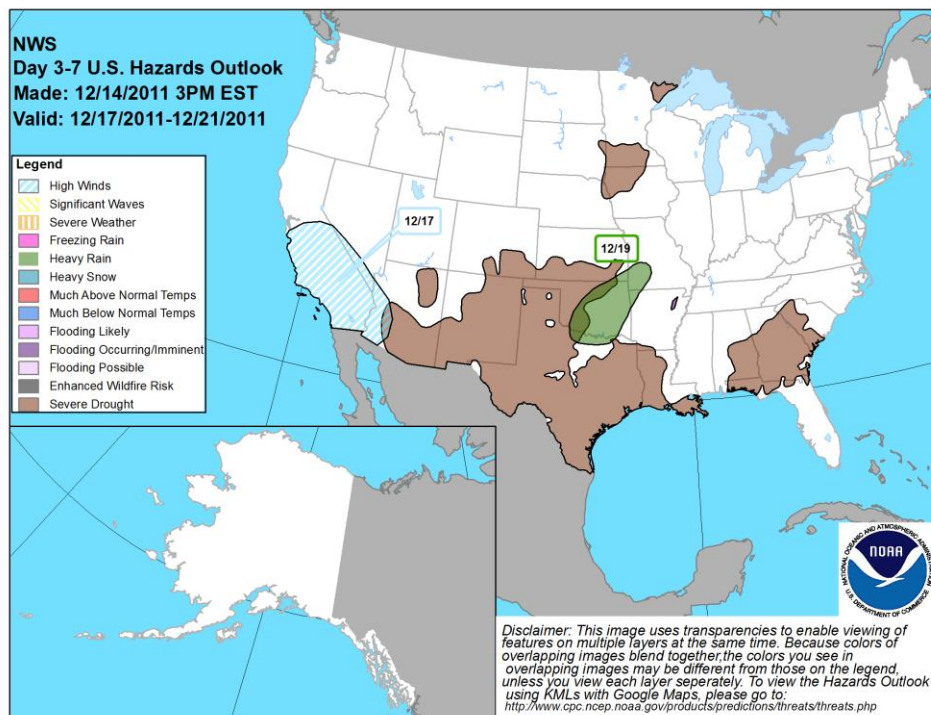
JAN-FEB-MAR AVERAGE TEMPERATURE
CATEGORY PROBABILITY



JAN-FEB-MAR TOTAL PRECIPITATION
CATEGORY PROBABILITY



U.S. Hazards Outlook for Days 3-14 (Made Dec 13, 2011)



For More Information



- Today's Presentation:
 - http://www1.ncdc.noaa.gov/pub/data/cmb/sotc/webinars/NOAA_Climate_Webinar_December_2011.pdf
- NOAA's National Climatic Data Center: www.ncdc.noaa.gov
 - Monthly climate reports (U.S. & Global): www.ncdc.noaa.gov/sotc/
- NOAA's Climate Prediction Center: www.cpc.ncep.noaa.gov
- Climate Portal: www.climate.gov
- U.S. Drought Monitor: www.drought.gov